Media Recipes for Solanum

MS multiplication medium (solid) - 1000 ml

To a small volume of double distilled water (ddH₂0) add:

MS basal medium w/vitamins¹ 4.43 g (prepackaged as M519²) Sucrose 30.0 g

- ✓ Stir until dry ingredients are completely dissolved
- ✓ Bring to final volume (1000 ml) with ddH₂0
- ✓ Adjust pH to 5.7
- ✓ Add:

Agar (Bacto^{™3*})

7.0 g

- ✓ Stir and heat until boiling
- ✓ Dispense into Magenta® GA7* culture vessels (40 ml/vessel)
- ✓ Autoclave

MS+0.3 M sucrose medium (liquid) – 1000 ml

✓ To a small volume of double distilled water (ddH₂0) add:

MS basal medium w/vitamins¹ 4.43 g (prepackaged as M519²) Reagent grade sucrose 103.0 g

- ✓ Stir until dry ingredients are completely dissolved
- ✓ Bring to final volume (1000 ml) with ddH₂0
- ✓ Adjust pH to 5.7
- ✓ Dispense into desired vessels
- ✓ Autoclave

MS+0.7 M sucrose medium (liquid) - 1000 ml

✓ To a small volume of double distilled water (dd H_2 0) add:

MS basal medium w/vitamins¹ 4.43 g (prepackaged as M519²) Reagent grade sucrose 240.0 g

- ✓ Stir until dry ingredients are completely dissolved
- ✓ Bring to final volume (1000 ml) with ddH₂0
- ✓ Adjust pH to 5.7
- ✓ Dispense into desired vessels
- ✓ Autoclave

MS+0.8 M sucrose medium (liquid) - 1000 ml

✓ To a small volume of double distilled water (ddH₂0) add:

MS basal medium w/vitamins¹ 4.43 g (prepackaged as M519²) Reagent grade sucrose 274.0 g

- ✓ Stir until dry ingredients are completely dissolved
- ✓ Bring to final volume (1000 ml) with ddH₂0
- ✓ Adjust pH to 5.7
- ✓ Dispense into desired vessels
- ✓ Autoclave

Kim potato recovery medium (solid) - 1000 ml

✓ To a small volume of double distilled water (dd H_2 0) add:

MS basal medium w/vitamins¹ 4.43 g (prepackaged as M519²) Sucrose 30.0 g

 $\begin{array}{ll} \text{IAA (indole-acetic acid)} & 0.05 \text{ mg} \\ \text{Zeatin} & 0.3 \text{ mg} \\ \text{GA}_3 \text{ (gibberellic acid)} & 0.05 \text{ mg} \\ \end{array}$

- ✓ Stir until dry ingredients are completely dissolved
- ✓ Bring to final volume (1000 ml) with ddH_20
- ✓ Adjust pH to 5.7
- ✓ Add:

Phytagel^{™4} 1.8 g

✓ Stir and heat until boiling

- ✓ Autoclave
- ✓ In laminar flow hood, dispense slightly cooled liquid into sterile 60x15 mm Petri dishes. Allow to cool completely and then wrap dishes with Parafilm®* until used.

¹Murashige & Skoog, 1962

²Phytotechnology Laboratories, Shawnee Mission, KS*

³Becton Dickinson & Co., Franklin Lakes, NJ*

⁴Magenta Corp. Chicago, IL*

^{*}Mention of trade names or commercial products in this article is solely for the purpose of providing specific information and does not imply recommendation or endorsement by the U.S. Department of Agriculture.